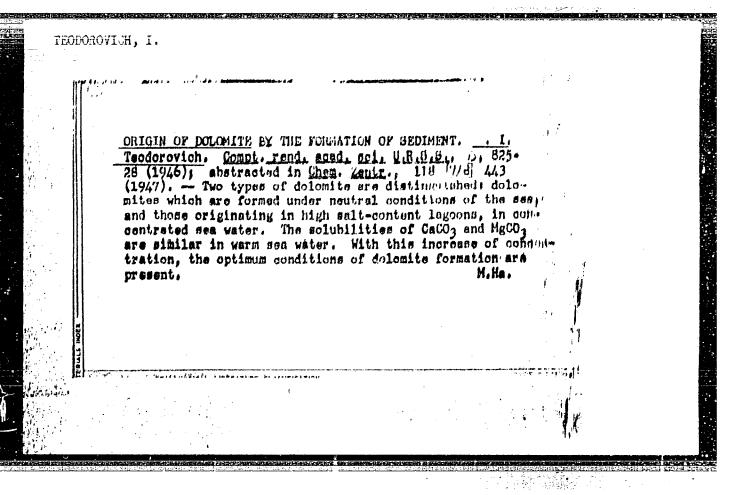
TEODOROVICH, G.I., doktor geol.-miner. nauk, otv. red.; SOLODOV, N.A., red.

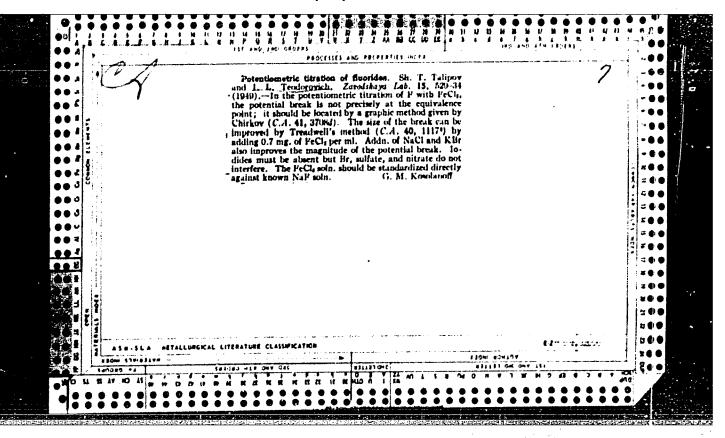
[General principles of the formation of the bituminous series based on the example of the Volga-Ural province]
Obshchie printsipy formirovaniia bituminoznykh svit na primere Volgo-Ural'skoi provintsii. Moskva, Nauka, 1965.
201 p. (MIRA 18:9)

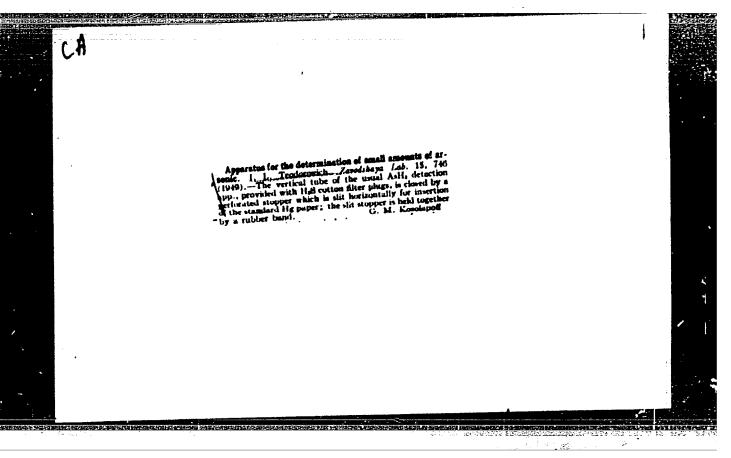
1. Moscow. Institut geologii i razrabotki goryuchikh isko-payemykh.

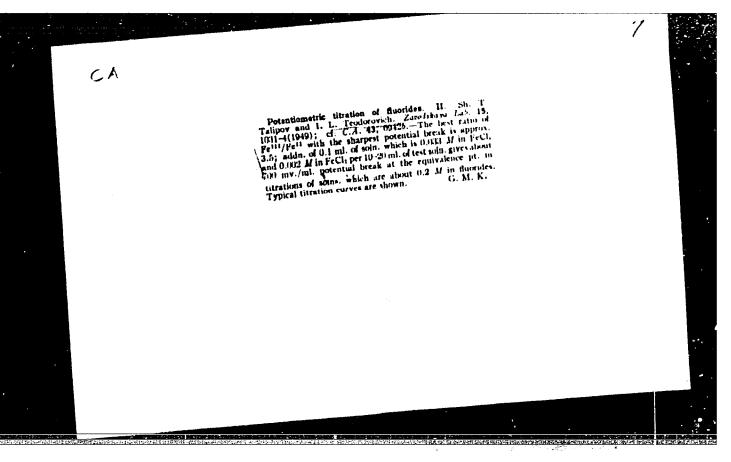
TEOEDORESCU, Che, prof. (Fucuse sti); ISENSCU, N., prof. (Ducuresti)

School excursions along the litteral of the Mask Sea. Nature
Geografic :3 no.3:64-70 My-Je 161.







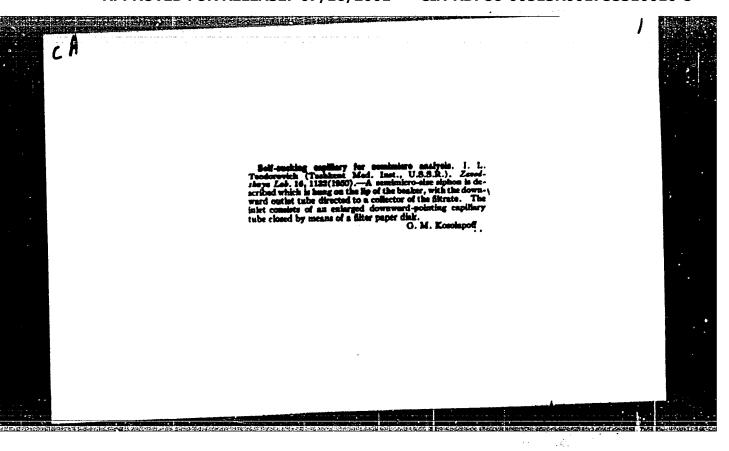


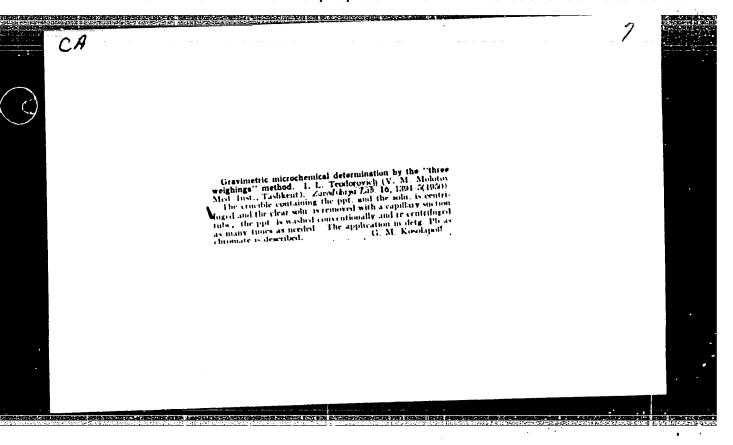
USSR/Chemistry - Microanalysis Nov 50

"Gravimetrical Microchemical Determination by the Method of Triple Weighing," I L. Tecdorovich, Tashkent Med Inst imeni V. M. Molotov

"Zavod Lab" No 11, pp 1394, 1395

Describes deta of lead in form of chromate. Conducted anal in 2.5-ml porcelain crucibles with application of centrifuging and capillary siphons.





ToULORUVICH, I.L.

"The Intermediate Jump in Potential during the Potentiometric Titration of Aluminum Salt Solution of Sodium Fluoride."

Central Asia State , Tasakent, Zhur Anal Khim, Vol. 7, No.3, ppl75-179, 1952.

Explained hat the configuration of the titration curve of the Al salt soln titrated with a NaF soln with a ferri-ferroelectrode, is detd by the dropgin potential on a Pt electrode owing to an increase in the pH and a decrease in Ferri in soln. Prese to a theoretical explanation for the titration curve on the passes of an increase in the srability of compds in the following series: ALCL3 \_\_\_\_ALCL\_\_ALF3.

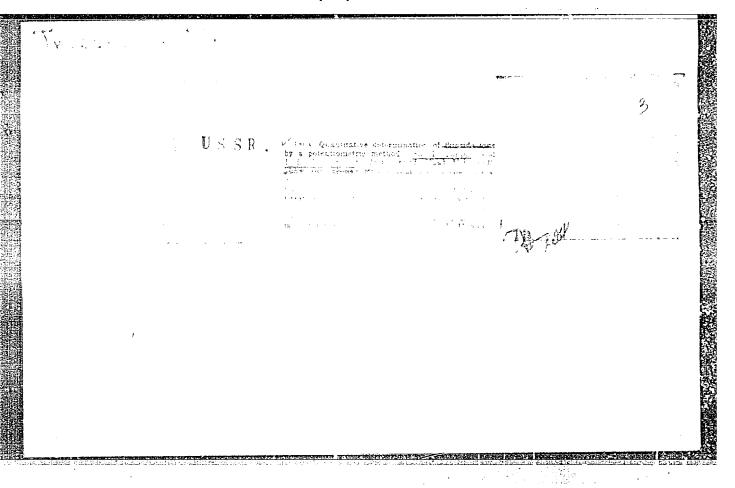
Demonstrated that the internediate drop in the potential is explained by the formation of AlF<sub>2</sub>Cl (of AlF<sub>2</sub>f ions), which produces a decrease in the acidity of the soln. This acidity decrease then brings about a drop in the potential of the Pt electrode. Found that the position of the intermediate drop in potential in the titration of a Al solt by a NaF soln. Also, in rapid analysis, it is possible to estimate the amount of Al by titrating only to the intermediate drop in potential.

261T22

TEODOROVICH, I. L.

"A Hondiscoloring Colorimetric Scale for the Determination of Small Quantities of Arsenic," Zavodskaya Laboratoriya, Vol. 18, No. 5, p 374, 1952.

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## "APPROVED FOR RELEASE: 07/16/2001

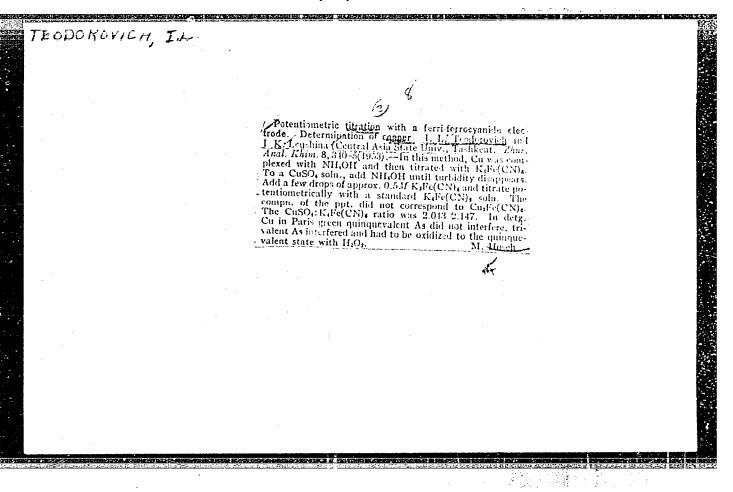
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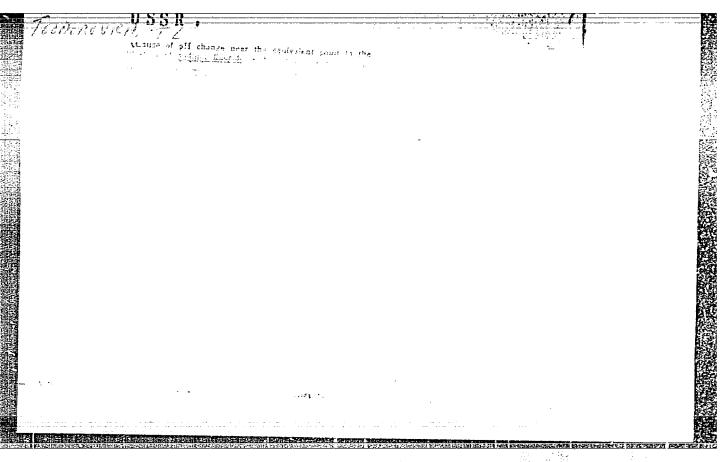
TEODORVICH, I. L.

Analytical Abst.
Vol. 1 No. 1

Jan. 1954
General Analytical Chemistry

17. Determination of indicator error by the method of I. M. Moreinan. 1. T. Tosholovich (f. John U.S. S.R. 1923, 5. 1871) - August toward. Chem. U.S. S.R. 1923, 5. 1871 - August toward. Commands formally formally the distribution of indicator error by the method of I. M. Moreinan. 1. T. Tosholovich (f. John U.S. S.R. 1923, 5. 1871) - August toward. Commands formally formally the distribution of indicator error by the method of I. M. Moreinan. 1. T. Tosholovich (f. John U.S. S.R. 1923, 5. 1871) - August toward. Commands formally formally the distribution of indicator error by the method of I. M. Moreinan. 1. T. Tosholovich (f. John U.S. S.R. 1923, 5. 1871) - August toward. Commands formally formally formally the distribution of indicator error by the method of I. M. Moreinan. 1. T. Tosholovich (f. John U.S. S.R. 1923, 5. 1871) - August toward. Commands formally for





TEODOROVICHE.L.

USSR/Chemistry - Co-deposition

Card 1/1

: Pub. 145 - 6/10

Authors

: Teodorovich, I. L., and Rakhimova, B. V.

Title

8 Study of the possibility of preventing co-deposition of Cu with

ferric hydroxide

Periodical

: Zhur. anal. khim. 9/5, 293-298, Sep-Oct 1954

Abstract

The effect of certain substances on the magnitude of Cu co-deposition during deposition of aqueous ferric oxide with ammonium hydroxide in Fe3+ and Cu2+ solutions, was investigated. The main factor assisting in the prevention of Cu co-deposition is explained. The ability of preventing Cu co-deposition increases by increasing the stability of the homologous Cu complexes. The effect of glycol and ethylenes mine additions on the Cu co-deposition, is analyzed. The method of introducing complex forming-agents may serve as a proper means of presenting adsorption and isomorphic co-deposition. Twelve USSR references

(1934-1952). Tables; graph.

Institution: Central Asiatic State University, Tashkent

Submitted

June 5, 1953

TEODOROVICH, I.L.; GUSEYNOVA, R.Kh.

Conditions for obtaining precipitates of ferrocyanides Fe<sup>3</sup>, Cu<sup>3</sup>, and Sn<sup>4</sup> of a constant composition. Soob.o nauch.reb.chl.VKHO no.1:22-25 '55.

(Ferrocyanides)

(Ferrocyanides)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310010-8"

7.35 P

ABRAMOV, M.K.; TEODOROVICH, I.L.

Amperometric titration of ammonium sulfate in medicinal sera [with summary in English]. Zhur.anal.khim. 12 no.4:566 J1-Ag 157. (MIRA 10:10)

1. Tashkentskiy farmatsevticheskiy institut i Tashkentskiy nauchnoissledovatel'skiy institut vaktsin i syvorotok. (Ammomium sulfate) (Electrochemical)

AUTHORS:

Teodorovich, I.L., Abramov, M.K.

32-24-4-9/67

TITLE:

The Application of Sodium Ferrocyanide for the Amperometric Manganese Titration (Primenentye ferrotsianida natriya dlya

amperometricheskogo titrovanlya margantsa)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 406-407 (USSR)

ABSTRACT:

The possibility of titrating manganese II in the presence of a complex former was investigated. Compared with potassium, sodium ferrocyanide is recommended as a more favorable titration liquid because sodium ions do not precipitate as much as potassium ions. Glycocoll was found to be the most effective former of complex. As may be seen from the course taken by the investigation, titration was carried out with an anodically polarized revolving

platinum-microelectrode. A 0.01 molar sodium ferrocyanide solution was used for titration. Titration errors in case of 0.213 mg

manganese II amounted to 3.3%, and in the case of 1.066 to 4.616 mg to 0.7%. In the case of a content of only 0.03 to 0.05 mg

manganese II the titration solution had to be diluted. As may be seen from a table, the presence of barium, calcium, magnesium,

Card 1/2

32-24-4-9/67

The Application of Sodium Ferrocyanide for the Amperometric Manganese Titration

and strontium does not disturb determination. There are 2 tables and 1 Soviet reference.

ASSOCIATION: Tashkentskiv farmatsevticheskiy institut i Institut vaktsin i syvorotok (Tashkent Pharmaceutical Institute and Institute for Inoculating Materials and Sera)

- 1. Manganese--Volumetric analysis 2. Sodium ferrocyanides -- Chemical reactions 3. Magnesium -- Chemical effects 4. Calcium -- Chemical effects 5. Barium -- Chemical effects
- 6. Electrodes -- Performance

Card 2/2

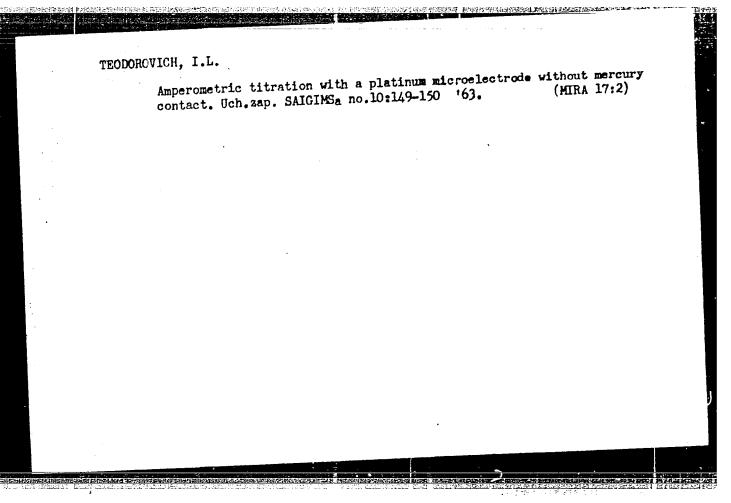
Amperometric titration of small quantities of Je (III) with

Amperometric titration of small quantities of Je (III) with

monosubstituted sodium phosphate. Dokl.AN Uz.SSR no.1:29-31
(MIRA 12:4)

159.

1. Institut khimii AN UzSSR. Predstavleno chlenom-korrespondentom
AN UzSSR Kh.U.Usmanovym.
(Iron-Analysis) (Sodium phosphate)



ABRAMOV, M.K.; TEODOROVICH, I.L.

Quantitative determination of ramonium sulfate in therapeutic sera by using the amperometric method. Apt. delc 13 no.1:66-69 Ja-F '64. (MIRA 17:4)

1. Tashkentskiy farmatsevticheskiy institut.

TEODOROVICH, I.L.

Amperometric titration of potassium in sylvinites. Zev. lab. 30 no.9:1062-1064 '64. (MIRA 18:3)

1. Institut khimii AN UzSSR.

TPODDROVICH, I.I.; AVEZOV: I.; GUTNIKOVA, R.I.; VOLYANSKAYA, Ye.

Possibility of preventing the coprecipitation of cobsit (II) and

Possibility of preventing the coprecipitation of cotalt (II) and from (III). Zhur. VEEO 10 no.2:238-239 465.

(MIRA 18:6)

7. institut krimii AN Ushekakoy SSR.

SEVAST'YANOVA, Ye.K., mladshiy nauchnyy sotrudnik; RACHINSKIY, A.A., kandidat sel'skokhozyaystvennykh nauk; GAVRIINNKO, D.M., mladshiy nauchnyy sotrudnik; TOGOYEV, I.N., otvetstvennyy redsktor; MALENIN, V.N., redaktor; TRODOROVICH, L.D., redaktor; PAZDZERSKIY, A.N., redaktor; DONSKOY, P.V., redaktor, LYUBECHANSKAYA, N.I., redaktor izdatel'stva; GOR' KOVAYA, Z.P., tekhnicheskiy redaktor

[Prospective plan for the development of a collective cotton farm; the Stalin collective farm of the Buvaidy District, Fergana Province] Perspektivnyi plan razvitiia khlopkoseiushchego kolkhoza; kolkhoz imeni Stalina Buwaidinskogo raiona Ferganskoi oblasti. Tashkent, 1956.

- 1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki.
- 2. Institut ekonomiki Akademii nauk Uzbekskoy SSR (for Sevast'yanova)
- 3. Institut sooruzheniy Akademii nauk Uzbekskoy SSR (for Rachinskiy) 4. Institut sel'skogo khozyaystva Akademii nauk Uzbekskoy SSR (for

(Uzbekistan -- Cotton growing)

TEODOROVICH, L. M.

"The Agrotechnical Bases and the Regionalization of Prospective Plans for Cotton-Grass Rotations in the Kolkhozes of the Ferganskaya Valley." Cand Agr Sci, Inst of Agriculture, Acad Sci Uzbek SR, Tashkent, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing

M-6

Abs Jour

: Rof Zhur - Biologiya, No 13, 1958, No. 58661

Author

: Teodorovich, L. M.; Pal'min, B. A.; Babushkin, L. N.

Inst

: UZ SSR Acad. Sci.

Title

: Division Into Regions of the Cotton Cultivation Zone

Orig Pub

: Izv. AN UZ SSR, 1956, No 12, 3-13

Abstract

: The characteristics of individual regions in the zone of irrigated cotton cultivation are given in this paper. They are based on indexes pertaining to the length of the vogetation period and the sum of effective temporatures. They are also in accordance with data on the composition of the soil in Uzbekistan and its degree of salinity. Indications as to the relative importance of individual types of soil and areas occupied by each

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USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing

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Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58661

region, and variations in economic conditions among the individual sections of the zone of irrigated cotton oultivation are also given in this paper. The zone of production specialization in the area set aside for irrigated cotton cultivation is divided into three subzones on the basis of the above indexes: (North western, central and southern) and six districts (Lower-Amu-Dar'ju, Zeravshan, Tashkent, Fergan, Kashka-Dariya, Surkhan-Dariya). The districts are in turn divided into subdistricts and administrative rayons. A brief description of sub-zones and rayons from the point of view of their climatic characteristics, soil conditions, agricultural engineering, type of planted varieties, and similar economic conditions, is given. In conclusion, the conditions, under which agromeliorative

Card 2/3

APPROVED FOR RELEASE: 07/16/2001

Plants. Technical, Oleaceous, Sugar Bearing

: Ref Zhur - Biologiya, No 13, 1958, No. 58661

measures directed towards further increases in yield per 100 ha of land in every sub-district must be worked out at a minimal expense of labor and money, are enumerated. -- N. N. Konstantinov

Card 3/3

LEODOROVICH L.M

USSR/Cultivated Plants - Technical, Oil and Sugar Crops.

M - 4

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10872

**Muthor** 

: Teodorovich, L.M.

Inst

: Academy of Sciences Uzbok SSR

Title

: Cotton Crop Characteristics for Rayons of the Golodneys Stoppe

Orig Fub

: Izv. AN UzSSR, ser. biol., 1957, No 1, 29-40

Abstract

t This a review which encompasses agroclimatic indices of the Golodnaya Steppe (by rayons), soil types and degrees of salination, a characterization of recommended crop rotation schemes, a comparison of the effectiveness of various agricultural techniques, and cheracteristics of cotton growth and development on saline soils. On the basis of an analysis of natural and aconomic conditions and the characteristics of the cotton crop, the

Card 1/2

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USSR/Cultivated Plants - Technical, Oil and Sugar Crops.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10872

conclusion is reached that cotton productivity can still be greatly increased on the newly opened up lands of the Golodnaya Steppe.

Card 2/2

KUCHER, R.V.; KOVBUZ, M.A.; TEODOROVICH, M.Ye.

Chromatographic separation of meta-disopropylbenzene hydroperoxides. Zav.lab. 27 no.11:1331-1333 '61. (MIRA 14:10)

1. L'vovskiy gosudarstvennyy universitet imeni I.Franko.
(Benzene) (Hydroperoxide)
(Chromatographic analysis)

s/080/61/034/003/009/017 A057/A129

AUTHORS:

Kucher, R. V., Kovbuz, M. A., Teodorovich, M. Ye.

On the purification of isopropylbenzene by adsorption

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 3, 1961, 598 - 603

A method for the purification of isopropylbenzene by means of adsorption was developed to improve the oxidizability of the latter in liquid phase autocatalytic oxidation processes. These processes are very sensitive, especially autocatalytic oxidation processes. These processes are very sensitive, especially at the beginning of the reaction, to the presence of impurities in the hydrocarbon. Usually an acid-alkali purification is applied, eventually with subsequent boiling over sodium metal, as recommended by D. D. Grant and C. F. Tipper [Ref. 4: J. Chem. Soc., 640 (1955)]. But also several adsorption methods were suggested in order to remove impurities from hydrocarbons, as isopropylbenzene or others by 0. A. Kolmaremove impurities from nydrocarbons, as isopropymenzene or others by J. A. Rosman, kov et al. [Ref. 9: Tr. po khim. i khim. tekhn., Gor'kiy, 1, 36 (1958)] or N. D. Kazakova and V. G. Gutsalyuk [Ref. 10: Izv. AN KazSSR, ser. khim., 1, 99 (1958)] nazarova and v. u. uuusaryuk [nel. 10: 12v. An kazsik, ser. knim., 1, 99 (1950)] and also in the Canadian patent 509870. Thus in the present work the adsorption was investigated of some substances dissolved in isopropylbenzene on ACK (ASK), MAS INVESTIGATED OF SOME SUBSTANCES DISSULVED IN ISOPROPYIDENZED OF NOR (ASK), ACM (ASK) Silica gel, aluminum oxide "for chromatography" and two types of carbon

Card 1/6

8/080/61/034/003/009/017 A057/A129

On the purification of isopropylbenzene by adsorption

with values obtained on pure ASM silica gel, consecutive adsorption of granulated carbon black on ASK and ASM silica gel, and the mixture 2:1. It can be seen from Fig. 3 that best results were obtained with ASK-carbon black mixture. Hence the latter is the optimum adsorbent for the purification of technical grade isopropylbenzene. Regeneration of the silica gel is carried out by washing with boiling water or steam and subsequent calcination. Kinetic curves (Fig. 4) on accumulation of hydrogen peroxide in liquid-phase homogeneous oxidation of isopropylbenzene obtained after purification by the acid-alkali method show that a lower reaction capacity is obtained in comparison to the product purified by adsorption methods. 5 kg of ASK silica gel and 2.5 kg of carbon black are necessary for the purification of 100 l of isopropylbenzene. There are 5 figures, 1 table and 12 references: 11 Soviet-bloc and 1 non-Soviet-bloc. The reference to the Englishlanguage publication reads as follows: D. D. Grant, C. F. Tipper, J. Chem. 3cc., 640 (1955).

ASSOCIATION: Kafedra fizicheskcy i kolloidnoy khimii L'vovskogo gosudarstvennogo universiteta imeni I. Franko (Department of Physical and Colloid Chemistry of the L'vov State University imeni I. Franko)

SUBNITTED: May 18, 196

Card 3/6

TECDOROVICH, N.

Elektrifikatsiia zheleznodorozhnogo transporta i ee tekhniko-ekonomich eskaia effektivnos!. ZRailroad electrification and its technical-economic effectiveness 7. (Sots. transport, 1932, no. 8-9, p 75-81).

DLC: HE7.S6

Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

CIA-RDP86-00513R001755310010-8" APPROVED FOR RELEASE: 07/16/2001

TEODOROVICH, N. A. (Engr.)

Plumbing

Stakhanovite methods for the installation of sanitary equipment in residential construction. Bivl. stroi. tekh. 9.no.14. 1952.

Monthly List of Russian Accessions, Library of Congress November 1952. UNCLASSIFIED

Alithma, A.B., and E.D. Byringen. (Scientific-research Institute for the Electrical Industry) Esternal Structure of Very-resistant Electric Contacts 218 Energy and Contacts 218 Energy of Persons their investigation of the Influence of Internal structure of betweengeneous materials on year resistance. They paid special structuration to the alloys Ag-Cu, Ag-Si-Ng, and Ag-Al.  Card 8/Al	The authors describe the results of their investigation of the comparison of warlous sethods of producing sintered setals.  Deer IJF and https://pro.laki. (Nuchoo-issledovstel'skiy institut elektrotekh. sicheskry prograhismosti - Scientiflo-Resserch institute for the Electrical Industry)  Dermechanical interedition of Contect Companions.  Dermechanical interedition of Contect Companions results in structure similar to that obtained by the situtered setal power sethod. The authors empirical this thermochemical sethod and its advantages.	H 1	relation to Resistance to Near of Electric Contacts tractions results of work he carried out along with engineer the results of work he carried out along with engineer the France, V.F. Sizonova. He describes the method applied many he contacts. This method permits approximating mes with real operating conditions. He suggests applying mes with real operating conditions. He suggests applying the city of the ATPLI "Houseon "ATPLI Plant) TOINGS Regulators relate the results of investigations they carried out in the decentory of the ATPLI Plant along with Engineers it. Breath production of contact in without voltage regulating generators, on the design of contact rittings and on contact setals.	Figure 4.0. (Level "Dinmo," Noncov - Noncov "Dinmo" Finat) Wear Resistance of Contacts in D-c Contactors and Controllers  The methor describes the authod of testing wear resistance of contacts at the "Dinma" Finat in Noncov and propose that all other plants adopt this sathed as a standard one to emable the comparison of test results.	COTMACE: This book comprises reports delivered at the flactric Contacts Conference hald in Mesors in Seculary 1976. These papers cover physical provesses occurring design conserting the disconnecting, sethods of designing and testing absertic energies, production and characteristics of contact materials. Daring this conference of the Lawtitts etcanticle to its context materials. Daring this consultant extracted product conferences of presistant etcantics to its context approved periodic conferences of presistant, askallargies, chemics and apparatus design appoints to delettic contexts, which are the components of electric specially designed products approved products of a lactric contexts, which are the components of electric specially descented systems. Thair physical, hornal, sechnolcal and chemical processes have still not been well analyzed. Materiance are given at the end of most of the reports.	Elektricheaklys bastakly; trudy sorwahchaniys (Electrical Contacts: Themsections of the Castremen) Riceroy, Commencations, 1956. 295; s. 3,150 copies printed.  Baitorial board: B.S. Sotahor (Resp. Ed.), Y.V. Unory, R.S. Kimstwow, T.Tu. Debahrum, and Z.S. Kirillows; Ed.: I.Ys. Debahrum; Tech. Ed.: K.F. Toronin.  PEDCHE: This collection of articles is literated for engineers and technicians designing, developing and operating electrical apparatus and is reserved with electric contact materials. It may also be useful in actentific research inetities and is research inetities and is research.	9(2) FRASE I BOOK EXPLOITATION SOV/1355 Sermalschanige po elektricheekim kontaktem, Moscow, 1936.
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507/129-58-9-4/16

AUTHORS: Frantsevich, I. N. and Teodorovich, O. K.

TITLE: On Certain Properties of Iron-Copper Alloys Obtained by

the Method of Impregnation (O nekotorykh svoystvakh

zhelezomednykh splavov, poluchayemykh metodom propitki)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 9,

pp 20-23 + 1 plate (USSR)

ABSTRACT: The possibility of obtaining cermets from two ageing

phases is a very rare and favourable factor for

producing materials with a great variety of properties on the basis of the binary system. The results of studying the manufacturing technology and the physico-mechanical properties of iron-copper compositions produced by sintering and impregnation have been described by a number of Western authors (Refs 2 - 10). The aim of the work described in this paper was to ensure by means of strengthening of the inter-phase boundaries and selection of an optimum ageing regime the necessary ductility combined with a high strength (90 kg/mm²) for an iron-

copper alloy. According to Elliott (Ref 9) alloys with the highest strength contained about 8% copper. After homogenisation such alloys should be single-phase alloys

Card 1/5 in the hardened state. The authors assume that even in

SOV/129-58-9-4/16 On Certain Properties of Iron-Copper Alloys Obtained by the Method of Impregnation

> the aged state such a composition may ensure the desired amount of ductility provided that in addition to an iron base phase it contains a more ductile ageing copper To avoid etching of the boundaries of the base phase. impregnated iron phase and loosening boundaries due to the accumulation of vacancies, the authors manufactured the alloy from solutions of copper in iron and iron in copper which were mutually in equilibrium at the temperature of impregnation or sintering. In this way the optimum conditions were created for ageing of the iron base phase and also of the copper base phase. iron powder contained 98.3% Fe, 0.3% Mn, 0.1% Si, 0.072% C, 0.01% S and an undissolved residue of 0.17% HCl. It was produced by reduction of scale and was subsequently enriched with copper (to contain 8% Cu) in a solution of copper From this powder specimens were pressed chloride. with the desired porosity and subjected to homogenisation annealing in hydrogen at 1050°C for twenty hours. The impregnating copper alloy, containing 5% Fe, was smelted in an atmosphere of hydrogen using copper which contained

Card 2/5

On Certain Properties of Iron-Copper Alloys Obtained by the Methol

0.05% admixtures and iron powder. The blanks of the specimens were impregnated in a hydrogen atmosphere in ennealed alumina at 1120°C for thirty minutes. investigation (density, micro-structure) specimens without pores were used. The process of dispersion hardening was investigated as follows: individual batches of fifteen specimens were heated to 1000°C in a hydrogen atmosphere and after a holding time of eight hours they were quenched in water. From these, cuts were made for micro-structural and micro-durometric investigations. To avoid the distorting influence of work hardening, the cuts were produced by means of electrolytic polishing. For studying the influence of the copper component on the strength and hardness, the blanks to be impregnated were pressed with porosities of 15, 20, 25, 30, 35 and 50%. After homogenisation annealing, impregnation and machining, the specimens were quenched from 1000°C in water and subjected to ageing at 430°C for three hours. The hardness values of the specimens prior to the mechanical tests are graphed in Fig. 2. It can be seen that with increasing copper content the hardness and the

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SOV/129-58-9-4/15

On Certain Properties of Iron-Copper Alloys Obtained by the Method of Impregnation

> strength of the pseudo-alloy drop considerably, whilst at the same time the plasticity increases. The graphs. Fig. 3, show the dependence of the micro-hardness of the individual phases on the temperature and the ageing time. It can be seen that considerable differences exist in the progress of the ageing processes in the iron-copper and copper-iron phase components; the hardening curves of the first mentioned phase are typical ones of Micro-structure photoartificially ageing alloys. graphs of specimens with various copper contents are reproduced in Fig. 4 (plate). Comparison of the data of the metallographic analysis with the mechanical characteristics of the alloys leads to the conclusion that in the case of a copper content of 50% the mechanical characteristics are determined fundamentally by the properties of the copper base phase. For a copper content of 25%, the iron base phase predominates; obviously, the strength characteristics of such an alloy are typical of a single-phase solution of copper and In the case of high temperature annealing, the iron.

Card 4/5

SOV/129-58-9-4/16

On Certain Properties of Iron-Copper Alloys Obtained by the Method of Impregnation

> tendency was observed of the copper phase to expand along the grain boundaries of the iron solution; this process is characterised by a drop in strength and an increase in the ductility (Fig. 5 and Fig. 6 (plate). Thus, in the given case the physical-mechanical properties are determined not only by the state of the individual phases but also by their mutual location. There are 6 figures and 10 references, 9 of which are English, 1 German.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN USSR Ceramics and Special Alloys Institute, (Metal Ac.Sc. Ukraine)

> 1. Copper-iron alloys--Properties 2. Copper-iron alloys--Phase studies 3. Copper-iron alloys--Analysis

Card 5/5

Cermet iron-copper compositions used for manufacturing machine parts [with summary in English]. Ench.-fis.shur. no.12:32-37
' 58.

(MIRA 11:12)

1. Institut metallokeramiki i spetsial nykh splavov AN USSR.

(Cermets)

AUTHORS:

Teodorovich, O.K., Kachkovskaya, E.T.

32-1-21/55

TITLL:

Electric Polishing and Etching of Metallographic Ground Surfaces of Metalloceramic Materials With an Iron- and Copper Basis (Elektropolirovka i elektrotravleniye metallograficheskikh shlifov iz metallokeramicheskikh materialov na osnove zheleza i

medi).

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Hr 1, pp. 57-60 (USSR)

ABSTRACT:

The apparatus recommended for this purpose in this paper (fig. 1) consists of a holder for the sample of stainless steel with a brass socket, which represents the current feed, a ring for the adjustment of the anode (ground section) and the cathode, also of stainless steel, with a brass socket, and a connection for the current, as well as of other parts by means of which the anode and cathode are held against each other. In order to avoid polarization of the cathode its surface is ten times as large as that of the anode. For electric polishing an electrolyte consisting of 88% orthophosphoric acid and 12% chrome anhydride is used. The surface to be polished is first treated with emery paper and cleaned with a piece of cloth drenched in an aluminum suspension. Polishing itself is

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Electric Polishing and Etching of Metallographic Ground Surfaces of Metalloceramic Materials With an Iron- and Copper Basis

32-1-24/55

carried out at a temperature of +50-70° C and a current density of 1.25 N/cm². Polishing takes 2 minutes; the distance between anode and cathode is adjusted to 3-5 mm. If, after electric polishing in this way, the current density is reduced to 0.05 N/cm², electric etching takes place and the granular boundaries on the iron basis become visible. As the relief, after electric polishing and etching, is connected with different velocities of the solution of phases, the method of two-stage polishing is used in this case. The device described is used for porous as well as for nonporous compounds with iron- and copper bases. The paper contains illustrations of the microstructures of such materials after electric polishing and/or electric etching of the surfaces. There are 4 figures.

ASSOCIATION:

Institute for Metalloceramics and Special Alloys AN Ukrainian SSR (Institut metallokeramiki i spezsplavov Akademii nauk USSR).

AVAILABLE:

Library of Congress

Card 2/2

1. Electropolishing-Methods

TEODOROVICH, O. K., Cand Tech Sci -- (diss) "Ferro-copper metallo-ceramic compositions." Kiev, 1960. 19 pp with illustrations; (Ministry of Higher and Secondary Specialist Education Ukrainian Sch, Kiev Order of Lenin Polytechnic Inst); 150 copies; price not given; (KL, 27-60, 155)

28 225 \$/194/61/000/005/069/078 D201/D303

9.2140 (:001, 1150, 1161)

AUTHORS:

Frantsevich, I.N., Teodorovich, O.K., and Gordiyenko,

G.N.

TITLE:

The use of palladium as a contact material

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 57, abstract 5 I386 (V sb. Elektr. kontakty, M.-L., Gosenergoizdat, 1960, 356-364)

Alloys, on the basis of silver and palladium with and without small additions of nickel, have been obtained by compressing semi-finished material from highly dispersive powder and its subsequent annealing at 850°C. The subsequent multiple processing of the half-product (final compression, drawing into tape or bars, drawing into wire with intermittent annealing at 850°C) makes it possible to obtain non-porous alloys with anisotropic properties. Certain properties of alloys are given in the table. The alloy APdNS-70 shows considerable advantages over other alloys. From the

Card 1/2

28225 S/194/61/000/005/069/078 D201/D303

The use of palladium...

point of view of transient resistance it is as good as gold and has a life time and stability exceeding those of all other types. Experimental comparison of contacts made of OK-15 and of ANS-70 has shown that in experimental conditions contacts from the silver-nickel alloy (ANS-70) have the better properties. 2 references.

Legend to table: 1) Trade mark of the alloy; 2) APdS-NO; 3) APdNS-70; 4) ANS-70; 5) Chemical composition; 6) S.g. g/cm<sup>3</sup>; 7) Vickers hardness; 8) Specific electrical conductivity, % of that of copper.

	Химический состания			ů,	តិន្ទំ២ និទ្ធិភ	
Марка сплава (()	Ag	Pd	Ni	()	Teepao no Bi kepcy	V.z. B.s. rponpor HOCTE,
ATTAC-HO (5) ATTAHC-70 (5) AHC-70(6)			 56 3530	1112 1011	20-25 30-35 	1014 1216 -

Abstracter's note: Complete translation\_7

Card 2/2

36429

S/137/62/000/003/064/191 A006/A101

15.2400

AUTHORS: Teodorovich, O. K., Radomysel'skiy, I. D.

TITLE: Investigating the properties of cermet Iron-brass compositions

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 41, abstract 3G284

("Poroshk. metallurgiya", 1961, no. 4, 63, English summary)

TEXT: The authors studied peculiarities in the technology of obtaining iron-brass compositions, manufactured by the method of soaking a Fe-skeleton with brass. The optimum brass content was 20%. The author investigated the effect of alloying Fe-powder with copper, of graphite admixtures, and heat treatment. In the best compositions  $\mathcal{T}_b$  was after quenching 50 - 60 kg/cm²,  $\delta$  was 3 - 8%; after tempering  $\mathcal{T}_b$  was 65 - 90 kg/mm²,  $\delta$  was 2 - 8%. Soaking was performed at 1,000°C.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 1/1

35790

\$/137/62/000/004/047/201 A006/A101

1.1600

AUTHORS:

Teodorovich, O.K.; Gordiyenko, G.N.

TITLE:

Silver and rhenium contacts

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 44, abstract 4G292 ("Poroshk. metallurgiya", 1961, no. 5, 60 - 64, English summary)

Information is given on a technology developed for manufacturing con-TEXT: tact materials: Ag + 50% Re and Ag + 70% Re. Re and Ag powders are dissolved in  $HNO_3$ ; the solutions are mixed and filtered; the residue is washed, dried and reduced at 300°C. the reduced powder mixture is pressed at a pressure of 3 t/cm², sintered at 900°C and additionally pressed at a pressure as high as 5 t/cm<sup>2</sup>. Changes in the contact resistance of the sintered specimens as functions of the current intensity and contact tension were measured; measurements were also taken of volt-ampere characteristics, erosion resistance, etc. The properties of Ag-Re contacts are of a higher quality than those of Ag and Ag-W contacts.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 1/1

Inst. Metal Ceramics & Special allays AS Ukr 55R-

8/137/62/000/007/016/072 A052/A101

AUTHORS:

Teodorovich, O. K., Frantsevich, I. N.

TITLE:

Role of diffusion processes in the formation of powdered-metal

iron-copper alloy

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 45, abstract 70312 ("Poroshk. metallurgiya", no. 6, 1961, 35 - 43; English summary)

A microscopic study of heterodiffusion in the system Cu-Fe and (Fe-Cu) - (Cu-Fe) has shown that the structure of interphase boundaries is imperfect as a result of heterodiffusion processes when pure Fe and Cu are used. The results of the X-ray spectrum analysis of microvolumes have confirmed the uniformity of component distribution when intersaturated solid solutions on Cu and Fe base are used. It is shown that Fe-Cu compositions made of intersaturated components have improved ductility and dynamic strength characteristics. There are 8 references.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 1/1

TEODOROVICH, O.K., kand.tekhn.nauk; IEVCHENKO, G.V., inzh.

Performance of contactors made from metalloceramic preparations with a tungsten base in large electric cutouts. Elektrichestvo (MIRA 15:2)

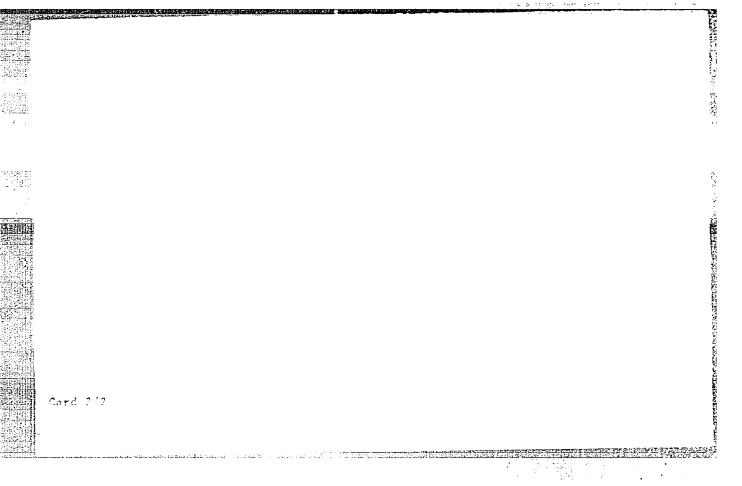
1. Institut metallokeramiki i spetssplava AN USSR, Kiyev. (Electric cutouts)

TEODOROVICH, C. K.; BOTKO, Ye. B.; FRANTSEVICH, I. W.

"Sintered parts of construction made from iron and copper."

Report presented at the Conference on Powder Metallurgy, Krakow, Poland, 19-21 Sept 63.

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i	Effect of silicon on the formation and properties of tungsten-
n	nickel-copper contacts. Forosh. met. 5 no.5:58-62 My 165. (NIRA 18:
3	l. Institut problem meterialovedeniya AN UkrSSR.

VLASENKO, 0.1.; LEVCHENKO, G.V.; MAREK, B.A.; TEODOROVICH, O.K.

Defects of ceramic metal tungaten-mickel-copper confectors. Forceh.met. 5 no.6:94-104 Je 165. (MIRA 18:8)

1. Institut problem materialovedeniya AN UkrSSR.

TTTIF: Coalectence during limited these elistering of tungeten-nickel-iron and hinterend

L 20253-66 EWP(k)/EWT(m)/EWP(e)/EWP(t) IJP(c) JD/HW/JG

ACC NR: AP5013252 SOURCE CODE: UR/0226/65/000/005/0058/0062

AUTHOR: Teodorovich, O. K.; Levchenko, G. V.; Vlasenko, O. L.

ORG: Institute of Problems of the Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Effect of silicon in the molding and properties of tungsten-nickel-copper contacts

SOURCE: Poroshkovaya metallurgiya, no. 5, 1965, 58-62

TOPIC TAGS: silicon containing alloy, tungeten containing alloy, copper containing alloy, nickel containing alloy, electric conductivity, tensile strength, specific resistance, powder metal molding

ABSTRACT: It was found that small additions of silicon in copper (up to 1%) improve the process of impregnating tungsten-nickel-copper contacts, and eliminate waste due to pores and cavities caused by the reducing effect of silicon and increase in the fluidity of copper. The electric conductivity, hardness, contact resistance, and tensile strength of tungsten-nickel-copper compositions change slightly on introducing small additions of silicon into copper. This is best done by impregnating tungsten-nickel-copper blanks in previously silicated graphite molds. Orig. art. has: 6 figures. [Based on author's abstract.]

SUB CODE: 11/ SUBM DATE: 20Mar64/ ORIG REF: 003/

Powder Metallurgy

L 1679-66 ENP(e)/EMT(m)/T/EMP(t)/EMP(k)/EMP(z)/EMP(b)/EMA(c) IJP(c) JD/HM/JG ACCESSION NR: AP5020772 UR/0226/65/000/008/0062/0069

AUTHOR: Dzykovich, I. Ya.; Makarova, R. V.; Teodorovich, O. K.; Frantsevich, I. N., 1965 (1985)

TITLE: Distribution of elements in forming metal ceramic alloys of the tungstennickel-iron system

SOURCE: Poroshkovaya metallurgiya, no. 8, 1965, 62-69

TOPIC TAGS: metal ceramic material, tungsten base alloy, nickel containing alloy, iron containing alloy, solubility

ABSTRACT: Samples of tunsten-nickel-iron alloys of the following composition were studied: W-10Ni(nickel 9.8%, remainder tungsten); W-7Ni-3Fe (7.2% nickel, 2.95% iron, remainder tungsten), W-Ni-5Fe (5.0% nickel, 5.15% iron, remainder tungsten), and W-3Ni-7Fe (3.0% nickel, 7.0% iron, remainder tungsten). Powders were prepared from reduced tungsten powder with a grain size of less than 40 microns and an aqueous solution of the nitrogen salts of nickel and iron and were reduced in a hydrogen atmosphere at 450 and 850 C. They were pressed at 20 kn/cm<sup>2</sup> into samples with a diameter of 10 mm and a height of 10 mm and Card 1/2

L 1679-66

ACCESSION NR: AP5020772

sintered in a furnace at 1450 C for 2 hours, with rapid cooling. One face of each sample was polished for examination. Results of experiments show that, in tungsten-nickel iron alloys, the introduction of iron has an effect on the mutual solubility of tungsten and nickel. In alloys containing iron, in comparison with tungsten nickel alloys, there is observed a contraction of the heterodiffusion front. The distribution of iron with respect to the tungsten grain remains constant, independent of the composition of the alloy, and more uniform in spite of the solubility which is five times greater than the solubility of nickel in alloys with an identical ratio of elements. Orig. art. has: 4 figures and 2 tables

ASSOCIATION: Institut elektrosvarki im. E. O. Patona AN USSR (Electric Welding Institute, AN USSR Institute problem materialovedeniya AN USSR (Institute

for Problems of Materials Processing, AN Ucrssn)

SUBMITTED: 06Oct64

ENCL: 00

SUB CODE: MM

NR REF SOV: 003

OTHER: 000

Card 2/2

#### "APPROVED FOR RELEASE: 07/16/2001

#### CIA-RDP86-00513R001755310010-8

ACC NR. AR6005799

SOURCE CODE: UR/0137/65/000/010/G033/G033

1,17(c) - 39/cK

AUTHOR: Frantsevich, I. N.; Teodorovich, O. K.; Boyko, Ye. B.

TITLE: Structural powder-metal products based on iron and copper

SOURCE: Ref. zh. Metallurgiya, Abs. 10G234

REF SOURCE: Sb. Poroshk. metallurgiya i metalloobrabotka. Yerevan, 1965, 35-49

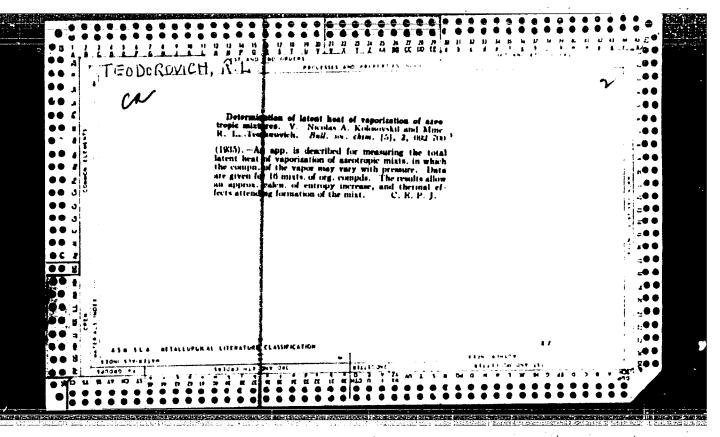
TOPIC TAGS: powder alloy, iron base alloy, copper base alloy, porosity, FAISRICATED STRUCTURAL INSTAL

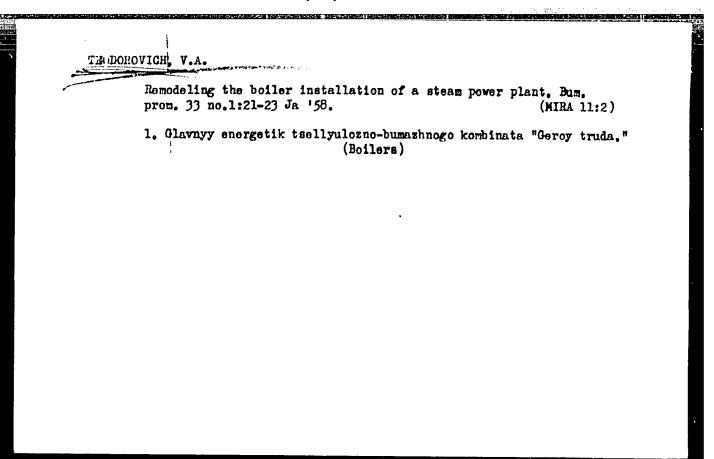
ABSTRACT: The results of an investigation of the processes of producing Fe-Cu powder alloys treated with Zn/Mn and C by the infiltration method are presented. The structure of Fe-Cu alloys is characterized by the presence of macro- and microscopic defects (porosity, looseness, etc.). These defects are of diffusion origin and are associated with imperfections of intercrystalline boundaries. Treatment with Zn, Mn and C affects beneficially the structure of these alloys. Data on the physical and mechanical properties of the infiltrated alloys following various types of heat treatment are presented. The principal considerations regarding an improved utilization of structural Fe-Cu materials with defect-free structure for the fabric-

Card 1/2

UDC: 669, 1'3:621, 762, 001

ation of strong and plast abstract]	ic machine parts are	described. I Brokhi	n. [Translation of	<b>f</b> . ,
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"Traces of Young Intrusive Activity in Central Towa," V.I. Technovich, Commonly for the Study of Productive Forces, Acrel Sci USSR

DAN SSSR, Vol 91, No 3, pp 635-636

States that young formations contain the intire general monety ical hydrothermal hematite mineralization of central Tuva. It is impossible to connect the mineralization with any known small intrusions of the Cenezaic basalts. Fres ated by Acad V. A. Obrachev 11 May 53.

262740

TEODOROVICH, V.T.

USSR/ Geology - Book review

Card 1/1 Pub. 46 - 14/19

Authors : Teodorovich, V. I.

Title : V. V. Byelousova's report entitles, "Modern State of Theoretical Geology"

Periodical : Izv. AN SSSR. Sor. gool. 3, 155-156. May - Jun 1954

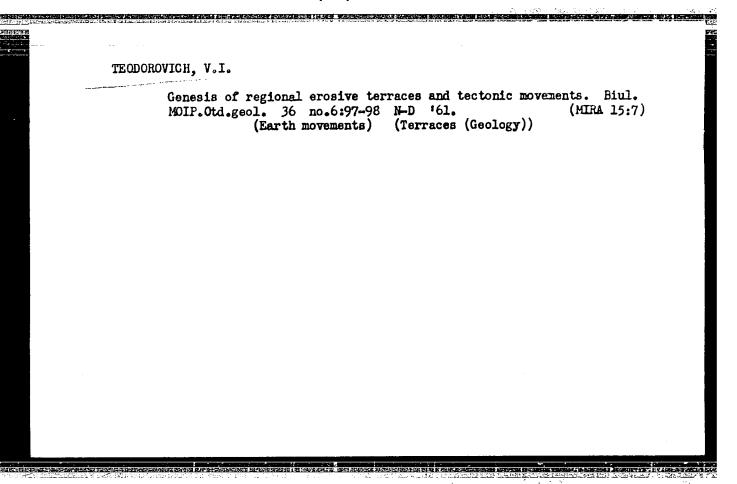
Abstract : A critical analysis is made of the report by V. V. Byelousova (1953). entitled, "The Modern State of Theoretical Geology," which describes

the present status of theoretical geology and offers ideas for its

further development.

Institution: .....

Submitted: December 4, 1953



KHLOPIN, N.G.; TEODOROVICH, V.I.

Explanation of external ocular muscles.Doklady Akad.nawk SSSR 76
no.6:893-896 21 Feb 51. (CLML 20:6)

1. Presented by Academician N.N.Anichkov 23 December 1950.

# TRODOROVICH, V.I.

Growth and differentiation of human myosymplasts in vitro. Arkh. anat.gist.i embr. 30 no.3:12-22 My-Je 153. (MLRA 6:6)

llz otdela gistologii (zav. -deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR N.G.Khlopin) Instituta eksperimental'noy meditsiny Akademi meditsinskikh nauk SSSR.

(MUSCLES, embryology, symplasts, tissue culture) (TISSUE CULTURE, of embryonic musc. symplasts)

TEODOROVICH, V.I., starshiy nauchnyy sotrudnik

Separation and preservation of thrombocytes. Akt.vop.perel.krovi no.4: 69-71 '55. (MIRA 13:1)

1. Laboratoriya konservirovaniya krovi Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik A.D. Belyakov).

(BLOOD PLATELETS)

TEODOROVICH, V.I., starshiy nauchnyy sotrudnik

Transfusion of suspensions of leucocytes of varying composition. (MIRA 13:1) Akt.vop.perel.krovi no.4:71-74 155.

1. Laboratoriya konservirovaniya krovi Leningradskogo instituta perelivaniya krovi (zav. luboratoriyey - starshiy nauchnyy sotrudnik A.D. Belyakov).

(BLOOD-TRANSFUSICN) (LEUCOCYTES)

USSR/Human and Animal Physiology. Blood.

T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 36311.

Author : Teodorovich, V.I., Khokhlova, K.V.

Title : A Simple Method of Leucocyte Suspension Preparation.

Orig Pub: Probl. hematol. i. perelivaniya kzevi, 1957, 2, No 4, 27-30,

66.

Abstract: No abstract.

Card : 1/1

28

Simple method for preparing a leukocyte suscension [with surmary in English, p.56]. Probl.gemat. i perel.krovi 2 no.4:27-30 Jl-Ag '57.

(MERA 10:10)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni nauchnoisaledovatel'skogo instituta perelivaniya krovi (dir. - dotsent A.D.Belyakov, nauchnyy rukovoditel' - chlen-korrespondent ANN SSSR prof. A.N.Filetov)

(LEUKOCYTES,

suspension for trensfusion, prep. of (Rus))

(BLOOD TRANSFUSION,

prep. of suspension of leukocytes (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310010-8"

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LUGANOVA, I.S.; SEYTS, I.F.; TEODOROVICH V.I.

Coordination of respiration and glycolysis and coupled phosphorylation in laukocytes [with summary in English]. Vop.med. khim. 3 no.6: 428-438 N-D '57. (MIRA 11:2)

1. Laboratoriya hiokhimii Institute perelivaniya krovi, Leningrad. (LEUKOCYTES, metaholism, resp., glycolysis & phosphorylation (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310010-8"

"Respiration, Glycolysis, and Conjugated Phosphorylation in Leukocytes," by 1. S. Luganova, I. F. Seyts, and V. I. Teodorovoich, Leningrad Scientific Research Institute for Blood Transfusion, Doklady Akademii Nauk SSSR, Vol 112, No 6, 21 Feb 57, pp 1082-1085

The article is a research report on respiration, aerobic and anaerobic glycolysis, and phosphorylation accompanying these processes in leukocytes of human blood under (1) normal conditions (donors' blood), (2) conditions of chronic and acute myeloid leukosis, and (3) during lymphadenosis.

Three sets of tests on metabolism in leukocytes were conducted: (a) leukocytes in scium, (b) leukocytes plus glucose under aerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under aerobic conditions. The leukocyte and (c) leukocytes plus glucose under aerobic conditions. The leukocyte and (c) leukocytes plus glucose under aerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions. The leukocyte and (c) leukocytes plus glucose under anaerobic conditions.

Results proved that in all cases where lirect Pasteur reaction was weakened, i.e., where respiration was incapable of completely depressing glycolytic splitting of sugar and where aerobic glycolysis existed (normal leukocytes and leukocytes in chronic myeloid leukosis), a reversed Pasteur reaction occurred. Where there was no aerobic glycolysis (lymphocytes and acute leukosis) the addition of sugar did not inhibit cellular respiration.

The authors conclude that these results coupled with research on spermatozoids, etc. can mean only that neither a high level of aerobic giycolysis in normal leukocytes and in leukocytes from the blood of latients with chronic leukosis, nor the capacity of these cells to concletely guarantee the resynthesis of ATP under both aerobic and anaerobic concitions, nor the occurrence of reversed Pasteur reaction, is specific formalignancy. Furthermore, there is no causative link between these metabolic characteristics and malignancy. (U)

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Ya cararran niyi di AUTHOR: LUGAHOVA, I.S., SEYTS and TEODOROVICH, V.I. PA - 2924 Surface-Localized Adenyl Pyrophosphatase in White Blood Cells. TITLE: (Poverkhnostno-lokalizirovannaya adenilpirofosfataza v leykotsitakh, Russian) Deklady Akademii Hauk SSSR, 1957, Vol 113, Nr 1, pp 149 - 151 PERIODICAL: (U.S.S.R.) Received: 6 / 1957 Reviewed: 7 / 1957 After scientists had established the fact that adenosintri phosphatase ABSTRACT: (ATF) widely occurs in cells in connection with intracellular structures, their interest was attracted by reports of the existence of adenylpyrephosphatase (APP) on the surface of cells. It was established that yeast cells and washed sperm cells of bulls are able to split the ATF added from outside. The ferment splitted the two mobile phosphorous rest end chains with the same velocity and displayed high specifity with respect to substratum. Only in a suspension of nucleaus erozytes of pigeons is ATF dephosphorised with a higher The experiments carried out by the authors proved the existence of highly active APP on the surface of leucosytes of various types. The activity of the ferment is displayed in such a manner that the leucosytes are able to destroy an amount of ATF equalling their own weight during the incubation period lasting 4 - 5 hours. At the same time the erythrozites of human blood have entirely lost this ability. Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310010-8"

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Surface-Localized Adenyl Pyrophosphatase in White Blood Cells.

This highly destructive activity of the leucosytes can be explained in different ways. It is interesting that not only the granulozytes displaying phagozytosic powers possess APP localized on the surface. Even non-phagozytosic lymphozytes and myeloblates (the newly discovered type of leucosytes) of the blood of patients suffering from acute leucosis showed the ability of splitting ATF added to it. Therefore, the APP activity bound on the surface is by no means connected with the phagosytosic function of the leucosytes, and their biological function remains obscure. A question of specific interest is raised by the problem of the specifity of APP to the substratum. Apparently it is sufficiently specific. APP of leucocytes is very sensitive to temperature rises. From these experiments it may be concluded that different types of leucocytes of human and animal origin carry a highly active ferment on their surface which splits extracellular ATF. The ferment is highly specific and unstable as to thermal changes. Its optimal pH value is about 9; it is suppressed by Ca2+ and activated by Mg2+. It is not connected with the phagozotosic activity of the cells. (2 illustrations and 4 citations). Leningrad Institute for Blood Transfusion K.M. BYKOV, Member of the Academy

Card 2/2
ASSOCIATION:
PRESENTED BY:
SUBMITTED:

AVAILABLE: Library of Congress

AUTHORS: Luganova. J. S. Sevta

Luganova, . S., Seyts, I. F., Teodorovich,

20-3-34/59

V. I.

TITLE:

On the Metabolic Activity of Blood Platelets

(O metabolicheskoy aktivnosti krovyanykh plastinok).

PERIODICAL:

Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 537-539 (USSR)

ABSTRACT:

Although blood platelets represent an important element in the system of coagulation their chemical structure and metabolism have been investigated only to a small extent. For this reason the investigation of the structural-chemical fundamental components of these cells is of special importance. Blood platelets of the blood of healthy persons (blood donors) were used as experimental material. They were investigated as to respiration, glycolysis, circulation of phosphorus in various phosphor-organic compounds (p<sup>32</sup>), the renewal of protein and of nucleinic acids at the carbon skeleton (glucose marked uniformerly by C14). Moreover, O<sub>2</sub>-absorption (in the Varburg apparatus), and formation of lactic acid (colorimetrically with p-oxydiphenyl) were measured. Adenosine-3-phosphoric acid (ATPh) was determined by means of the absorption method with coal (ref. 2). The metablic characteristics of plood

Card 1/4

On the Metabolic Activity of Blood Platelets

20-3-34/59

platelets are given on table 1. The velocity of aerobic glycolysis of blood platelets amounted to approximately 65 % of the glycolysis possible under anaerobic conditions. Furthermore, it can be seen from table 1 that the respiration of blood platelets under the presence of glucose is by approximately 20% weaker than without glucose. This proves that the so-called reverse Paster (Pasteur)-reaction takes place in the blood platelets. The analogy of energetic metabolism of blood platelets with leucocytes and cancer cells is not only restricted to anaerobic glycolysis and the reverse Paster reaction. Moreover, blood platelets like leucocytes and ascyric cancer cells are able to guarantee a fullvalue resynthesis of ATPh and of other complicated phosphororganic compounds on anaerobic conditions. Between these three cells so different from the biological, genetical, morphological, and chemical point of view there exist some common features which are in connection with the mentioned peculiarities of metabolism and which are due to them. However, any specific connection between parameters of energy metabolism with blood platelets and malignancy are excluded. No desoxyribonucleis acid could be found in blood platelets. However, they contain ribonucleic acid in noticeable

Card 2/4

On the Metabolic Activity of Blood Platelets

20-3-34/59

quantities. Although this amount is considerably smaller in blood platelets (approximately 1/5) than in leucocytes the velocity of the reformation of phosphorus is by some dozens of times higher in the case of the blood platelets than with leucocytes. Phosphorus is quickly renewed also in phosphoroproteins which are contained only little in blood platelets. On the other hand the  $p^{32}$ - inclusion in to the abundantly present phospholipoids was unimportant. Up to now there is no agreement as to whether blood platelets are full-value cells or only cell splinters. It can be seen from the above results that blood platelets dispose of the whole spectrum of systems of enzymes which catalize the energetic and the plastic metabolism. Only living biological systems autonomous from the functional and structural-chemical point of view can show these properties. Inspite of the lacking of a nucleus (which is known also from other cases) blood platelets must be characterized from the biochemical point of view as biologic formations with the main features of a cell. There are 2 tables, and 6 references, 4 of which are Slavic.

Card 3/4

On the Metabolic Activity of Blood Platelets

20-3-34/59

ASSOCIATION: In

Institute for Blood Transfusions, Leningrad

(Leningradskiy institut perelivaniya krovi).

' PRESENTED:

July 8, 1957, by L. A. Orbeli, Academician

SUBMITTED:

July 3, 1957

AVAILABLE:

Library of Congress

Card 4/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310010-8"

LUGANOVA, I.S.; SEYTS, I.F.; TEODOROVICH, V.I.

A REPORT OF THE PROPERTY OF TH

Metabolic activity of blood platelets. Dokl. AN SSSR 118 no.3:537-539 Ja '58. (MIRA 11:4)

1.Leningradskiy institut perelivaniya krovi. Predstavleno akademikom L.A. Orbeli.
(BLOOD PLATELETS)

LUGANOVA, I.S., SHYTS, I.F., TEODOROVICH, V.I.

Metabolism in human thrombocytes [with summary in English].

Biokhimiia 23 no.3:405-411 ky-Je '58 (MIRA 11:8)

1. Institut perelivaniya krovi Ministerstva zdravookhraneniya
RSFSR, Leniugrad.
(BLOOD PLATHIETS, metabolism
(Rus))

TRODOROVICH, V.P., starshiy nauchnyy sotrudnik; TEXODOROVICH, V.I., starshiy nauchnyy sotrudnik

Treatment of radiological leukopenia with leucocyte preparations.

Akt.vop.perel.krovi no.6:57-63 '58. (MIRA 13:1)

1. Patologo-anatomicheskaya laboratoriya (zav. laboratoriyey - starshiy nauchnyy sotrudnik V.P. Teodorovich) i laboratoriya konservirovaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdest-venskaya) Leningradskogo instituta perelivaniya krovi.

(LEUCOPENIA) (X RAYS--PHYSIOLOGICAL EFFECT)

(LEUCOCYTES--THERAPEUTIC USE)

TEODOROVICH, V.P., starshiy nauchnyy sotrudnik; THODOROVICH, V.I., strashiy nauchnyy sotrudnik

Security of the angle of the control of the control

Treatment of experimental leucopenias with leucocyte suspensions of varying composition. Akt.vop.perel.krovi no.6:150-157 158.

(MIRA 13:1)

1. Patologo-anatomicheskaya laboratoriya (zav. laboratoriyey - starshiy nauchnyy sotrudnik V.P. Teodorovich) i laboratoriya konservirovaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdestvenskaya) Leningradskogo instituta perelivaniya krovi.

(LEUCOPENIA) (LEUCOCYTES--THERAPEUTIC USE)

TEODOROVICH, V.I., starshiy mauchayy sotrudnik; YAKOVLEVA, O.P., mauchayy sotrudnik

Treatment of some blocd system diseases with laucocyte and thrembecyte suspensions. Akt.vop.perel.krovi nc.6:158-164 158.

1. Laboratoriya konservirovaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdestvenskaya) i gematolorickeskaya klinika (zav. klinikoy - prof. S.I. Sherman) Loningradukogo instituta pereliva-

DIYA KTOVI.

(BLOOD--DISEASES) (LEUCOCYTES--THERAPEUTIC USE)

(BLOOD PLATELETS--THERAPEUTIC USE)

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1. Laboratoriya konservirovaniya krovi Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdestvenskaya).

(LEUCOCYTES) (BLOOD PLATELETS)

TEODOROVICH, V.I., starshiy nauchnyy sotrudnik

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1. Iaboratoriya konservirovaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdestvenskaya) Leningradskogo instituta porelivaniya krovi.

(LEUCOCYTES)

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1. Laboratoriya konservirovaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik M.A. Rozhdestvenskaya) Leningradskogo instituta perelivaniya krovi.

(LEUCOCYTES)

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TEODOROVICH, V. I., kand. med. nauk; BEZNOSIKOV, B. O., kand. biolog. nauk (Leningrad)

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(PURPURA) (ERYTHREMIA) (BLOOD PLATELETS)